

Blank M, Cabilly S, Shoenfeld Y, Katchalski-Katzir E;

DR WPI; 2000-182105/16.  
 XX Novel synthetic peptides that inhibit anti-beta-2-glycoprotein 1  
 PT antibodies, useful for diagnosis and treatment of anti-phospholipid  
 PT syndrome in humans  
 XX  
 XX Disclosure; Page 13; 58pp; English.  
 XX The present sequence represents a synthetic peptide which is capable  
 CC of inhibiting the biological activity of anti-beta-2-glycoprotein 1  
 CC (B2GPI) monoclonal antibodies in vitro and of inhibiting in vivo  
 CC induction of experimental anti-phospholipid syndrome in mice by  
 CC anti-B2GPI monoclonal antibodies. The peptides are used for diagnosis  
 CC and treatment of anti-phospholipid syndrome. They may also be used  
 CC for the diagnosis of anti-phospholipid antibodies with different  
 CC pathogenic biofunctions which may correlate with either pregnancy  
 CC complications, thrombosis or coagulation dysregulation.  
 XX  
 XX Sequence 14 AA;  
 SQ Query Match 97.3%; Score 71; DB 21; Length 14;  
 Best Local Similarity 100.0%; Pred. No. 2.3e-06; Indels 0; Gaps 0;  
 Matches 14; Conservative 0; Mismatches 0;  
 QY 1 KDKATFGTHDGGXA 14  
 Db 1 KDKATFGTHDGGXA 14  
 RESULT 2  
 AAY69270  
 ID AAY69270 standard; peptide; 11 AA.  
 AC AAY69270;  
 XX  
 XX 30-MAY-2000 (first entry)  
 DE Cyclic peptide which inhibits anti-beta-2-glycoprotein 1 antibodies.  
 XX  
 XX Anti-beta-2-glycoprotein 1 antibody; anti-B2GPI antibody; cyclic;  
 KW anti-phospholipid syndrome; anti-phospholipid antibody;  
 KW pregnancy complication; thrombosis; coagulation dysregulation.  
 XX  
 XX Synthetic.  
 OS  
 XX WO200001729-A2.  
 PN  
 XX 13-JAN-2000.  
 PD  
 XX 06-JUL-1999; 99WO-1100366.  
 PF  
 XX 07-JUL-1998; 98TL-0125262.  
 PR  
 XX (YEDA ) YEDA RES & DEV CO LTD.  
 PA  
 XX Blank M, Cabilly S, Shoenfeld Y, Katchalski-Katzir E;  
 PI WPI; 2000-182105/16.  
 DR  
 XX Novel synthetic peptides that inhibit anti-beta-2-glycoprotein 1  
 PT antibodies, useful for diagnosis and treatment of anti-phospholipid  
 PT syndrome in humans  
 XX  
 XX Claim 4; Page 38; 58pp; English.  
 PS  
 XX The present sequence represents a synthetic peptide which is capable  
 CC of inhibiting the biological activity of anti-beta-2-glycoprotein 1  
 CC (B2GPI) monoclonal antibodies in vitro and of inhibiting in vivo  
 CC induction of experimental anti-phospholipid syndrome in mice by  
 CC anti-B2GPI monoclonal antibodies. The peptides are used for diagnosis  
 CC and treatment of anti-phospholipid syndrome. They may also be used  
 CC for the diagnosis of anti-phospholipid antibodies with different  
 CC pathogenic biofunctions which may correlate with either pregnancy  
 CC complications, thrombosis or coagulation dysregulation.

CC complications, thrombosis or coagulation dysregulation.  
 XX  
 SQ Sequence 11 AA;  
 - Query Match 84.9%; Score 62; DB 21; Length 11;  
 - Best Local Similarity 100.0%; Pred. No. 7.8e-05;  
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 KDKATFGTHDG 11  
 Db 1 KDKATFGTHDG 11  
 RESULT 3  
 AAB17993  
 ID AAB17993 standard; Peptide; 12 AA.  
 AC AAB17993;  
 XX  
 XX 31-OCT-2000 (first entry)  
 DT  
 XX Beta-2GPI Ab binding peptide sequence SEQ ID NO:1105.  
 DE  
 XX Modified peptide; therapeutic agent; fusion; Fc domain; Cancer;  
 KW autoimmune disease; cytostatic; antiasthmatic; thrombolytic; VEGF;  
 KW immunosuppressive; EPO; TPO; CTLA4; mimetic; IL-1; TNF; antagonist;  
 KW MMP; inhibitor; erythropoietin; thrombopoietin; interleukin 1;  
 KW cytotoxic T cell lymphocyte antigen 4; tumour necrosis factor;  
 KW vascular endothelial growth factor; matrix metalloproteinase;  
 KW asthma; thrombosis; pharmaceutical.  
 KW  
 OS Synthetic.  
 OS  
 XX WO200024782-A2.  
 PN  
 XX 04-MAY-2000.  
 PD  
 XX 25-OCT-1999; 99WO-US25044.  
 PF  
 XX 23-OCT-1998; 98US-0105371.  
 PR  
 XX 22-OCT-1999; 99US-0428082.  
 PR  
 XX (AMGE-) AMGEN INC.  
 PA  
 XX Feige U, Liu C, Cheetham J, Boone TC;  
 PI WPI; 2000-350702/30.  
 DR  
 XX Novel composition of matter comprising an Fc domain and  
 PT pharmacologically active peptides, useful for treating cancer and  
 PT autoimmune diseases  
 XX  
 XX Claim 39; Page 600; 608pp; English.  
 PS  
 XX The present invention describes composition of matter (I) comprising an  
 CC Fc domain, pharmacologically active peptides, and linkers. Where (I) is:  
 CC (X1)a-F1-(X2)b, where: F1 = an Fc domain; X1 and X2 = are each  
 CC independently selected from -(L1)c-P1, -(L1)c-P1-(L2)d-P2,  
 CC -(L1)c-P1-(L2)d-P2-(L3)e-P3, or -(L1)c-P1-(L2)d-P2-(L3)e-P3-(L4)f-P4  
 CC where P1, P2, P3, and P4 = are each independently sequences of  
 CC pharmacologically active peptides; L1, L2, L3, and L4 = are each  
 CC independently linkers; and a, b, c, d, e, and f = are each independently  
 CC 0 or 1, provided that at least 1 of a and b is 1. The composition can  
 CC have cytostatic, antiasthmatic, thrombolytic and immunosuppressive  
 CC activities. DNAs, vectors and host cells from the present invention can  
 CC be used for producing pharmaceutical compositions. The compositions are  
 CC useful for treating cancer, asthma, thrombosis, or autoimmune diseases.  
 CC The use of an Fc domain (rather than a Fab domain) can provide a longer  
 CC half-life or incorporate functions such as Fc receptor binding, protein  
 CC A binding, complement fixation, and possibly placental transfer. AAA69443  
 CC to AAA69526 and AAB16955 to AAB18003 represent nucleotide and amino acid  
 CC sequences used in the exemplification of the present invention.  
 CC

SO Sequence 12 AA;  
Query Match 76.7%; Score 56; DB 21; Length 12;  
Best Local Similarity 90.9%; Pred. No. 0.0011;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KDRATFGTHDG 11  
||||| |||  
DB 1 KDRATFGCHDG 11

RESULT 4  
ABR73364  
ID ABR73364 standard; Peptide; 12 AA.  
XX AC ABR73364;  
XX DT 05-APR-2002 (first entry)  
XX XX Exemplary pharmacologically active peptide SEQ ID NO:1103.  
XX KW Modified peptide; mimetic; Fc domain; fusion; immunoglobulin G; IgG;  
XX KW EPO; erythropoietin; TPO; tumour necrosis factor alpha inhibitor;  
XX KW TNF-alpha inhibitor; interleukin 1 antagonist; IL-1 antagonist; TNF;  
XX KW TPO mimetic peptide; EPO mimetic peptide; EMP; VEGF antagonist;  
XX KW MMP inhibitor; antiinflammatory; antitumour; immunosuppressive;  
XX KW cytostatic; antirheumatic; antiarthritis; antidiabetic; ophthalmological;  
XX KW antianemic; anorectic; antifertility; haemostatic; dermatological;  
XX KW neuroprotective; inflammatory disease; autoimmune disease; tumour growth;  
XX KW cancer; rheumatoid arthritis; diabetic retinopathy; infertility; obesity;  
XX KW sleep disorder; neurological degenerative disease; anaemia;  
XX KW thrombocytopaenia; metastatic tumour; systemic lupus erythematosus;  
XX KW Fanconi's syndrome.  
XX OS Synthetic.  
XX XX WO200183525-A2.  
XX XX 08-NOV-2001.  
XX XX 02-MAY-2001; 2001WO-US14310.  
XX XX 03-MAY-2000; 2000US-0563286.  
XX XX (AMGE-) AMGEN INC.  
XX XX Felge U, Liu C, Cheetham JC, Boone TC, Gudas JM;  
XX XX WPI; 2002-130313/17.  
XX XX Novel vehicle-peptide molecule or its multimers useful for treating  
XX XX inflammatory and autoimmune diseases, cancer, rheumatoid arthritis,  
XX XX diabetic retinopathy, obesity, sleep disorders and infertility  
XX XX Claim 39; Page 62; 176pp; English.

The present invention describes a vehicle-peptide molecule (I) or its multimers. (I) can have antiinflammatory, antitumour, immunosuppressive, cytostatic, antirheumatic, antiarthritis, antidiabetic, ophthalmological, antianemic, anorectic, antifertility, haemostatic, dermatological and neuroprotective activities. (I) can be used as a therapeutic or prophylactic agent as well as for screening purposes. (I) is useful for diagnosing diseases characterised by dysfunction of their associated protein of interest, for identifying normal or abnormal proteins of interest, as a part of diagnostic kit to detect the presence of their proteins of interest in a biological sample. Additionally, (I) is useful for treating inflammatory and autoimmune diseases, tumour growth, cancer, rheumatoid arthritis, diabetic retinopathy, obesity, sleep disorders, infertility, and neurological degenerative diseases. (I), comprising EPO-mimetic compounds are useful for treating disorders characterised by low red blood cell levels such as anaemia. The TPO-mimetic comprising compounds are useful for treating conditions that involve an existing megakaryocyte/platelet deficiency or an expected megakaryocyte/platelet

CC deficiency, such as thrombocytopaenia, aplastic anaemia, metastatic tumour which result in thrombocytopaenia, systemic lupus erythematosus, and Fanconi's syndrome. ABR72403 to ABR73426 and ABR35695 to ABR35777 represent amino acid and nucleic acid sequences used in the exemplification of the present invention.

XX XX Sequence 12 AA;  
Query Match 76.7%; Score 56; DB 23; Length 12;  
Best Local Similarity 90.9%; Pred. No. 0.0011;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KDRATFGTHDG 11  
||||| |||  
DB 1 KDRATFGCHDG 11

RESULT 5  
AAR75003  
ID AAR75003 standard; protein; 145 AA.  
XX AC AAR75003;  
XX XX 18-JAN-1996 (first entry)  
XX XX Human beta-2 glycoprotein domains IV-V.  
XX KW Human beta-2 glycoprotein; domains IV-V; antiphospholipid antibodies;  
XX KW reagent; assay; diagnosis; autoimmune; infectious diseases.  
XX OS Homo sapiens.  
XX XX Key Location/Qualifiers  
XX FH Disulfide-bond 5..48  
XX FT Disulfide-bond 34..60  
XX FT Disulfide-bond 64..115  
XX FT Disulfide-bond 100..125  
XX FT Disulfide-bond 107..145  
XX PN WO9514231-A1.  
XX XX 26-MAY-1995.  
XX XX 15-NOV-1994; 94WO-JP01929.  
XX XX 16-NOV-1993; 93JP-0309874.  
XX XX (YAMA-) YAMASA CORP.  
XX XX Igarashi M, Igarashi Y, Koike T, Matsuura E, Nagae H;  
XX XX WPI; 1995-200487/26.  
XX XX Assay and typing of anti-phospholipid antibodies - using peptide  
XX XX containing the IV domain of beta-2 glyco:protein  
XX XX Example; Fig 6; 70pp; Japanese.  
XX XX AAR75003 is the human beta-2 glycoprotein domains IV-V, it can be  
XX XX used as a reagent (prefer. immobilised on a suitable carrier) in  
XX XX an immunoassay for antiphospholipid antibodies in biological  
XX XX samples. The assay allows the rapid and accurate diagnosis of  
XX XX syndromes involving antiphospholipid antibodies, and can  
XX XX discriminate between autoimmune and infectious diseases.

XX XX Sequence 145 AA;  
Query Match 76.7%; Score 56; DB 16; Length 145;  
Best Local Similarity 90.9%; Pred. No. 0.02;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KDRATFGTHDG 11  
||||| |||

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Db      27 KDKATFGCHDG 37

RESULT 6
AAR75002
ID AAR75002 standard; protein; 207 AA.
XX AC AAR75002;
XX DT 18-JAN-1996 (first entry)
XX DE Human beta-2 glycoprotein domains III-V.
XX KW Human beta-2 glycoprotein; domains III-V; antiphospholipid antibodies;
XX KW reagent; assay; diagnosis; autoimmune; infectious diseases.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Disulfide-bond 4..50
XX FT Disulfide-bond 36..62
XX FT Disulfide-bond 67..110
XX FT Disulfide-bond 96..122
XX FT Disulfide-bond 126..177
XX FT Disulfide-bond 162..187
XX FT Disulfide-bond 169..207
XX PN W09514231-A1.
XX PD 26-MAY-1995.
XX PF 15-NOV-1994; 94WO-JP01929.
XX PR 16-NOV-1993; 93JP-0309874.
XX PA (YAMA-) YAMASA CORP.
XX PI Igarashi M, Igarashi Y, Koike T, Matsuura E, Nagae H;
XX WIPI; 1995-200487/26.
XX PT Assay and typing of anti:phospholipid antibodies - using peptide
XX PT containing the IV domain of beta-2 glyco:protein
XX PS Example; Fig 5; 70pp; Japanese.
XX CC AAR75002 is the human beta-2 glycoprotein domains III-V, it can be
XX CC used as a reagent (pref. immobilised on a suitable carrier) in
XX CC an immunoassay for antiphospholipid antibodies in biological
XX CC samples. The assay allows the rapid and accurate diagnosis of
XX CC syndromes involving antiphospholipid antibodies, and can
XX CC discriminate between autoimmune and infectious diseases.
XX SQ Sequence 207 AA;

Query Match 76.7%; Score 56; DB 16; Length 207;
Best Local Similarity 90.9%; Pred. No. 0.031;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KDKATFGTHDG 11
    ||||| |||
Db 89 KDKATFGCHDG 99

RESULT 7
AAR74999
ID AAR74999 standard; protein; 248 AA.
XX AC AAR74999;
XX DT 18-JAN-1996 (first entry)
XX DE Human beta-2 glycoprotein domains I-IV.

XX KW Human beta-2 glycoprotein; domains I-IV; antiphospholipid antibodies;
XX KW reagent; assay; diagnosis; autoimmune; infectious diseases.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Disulfide-bond 5..45
XX FT Disulfide-bond 31..58
XX FT Disulfide-bond 63..109
XX FT Disulfide-bond 95..121

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XX KW Human beta-2 glycoprotein; domains I-IV; antiphospholipid antibodies;
XX KW reagent; assay; diagnosis; autoimmune; infectious diseases.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Disulfide-bond 4..47
XX FT Disulfide-bond 32..60
XX FT Disulfide-bond 65..105
XX FT Disulfide-bond 91..118
XX FT Disulfide-bond 123..169
XX FT Disulfide-bond 155..181
XX FT Disulfide-bond 186..229
XX FT Disulfide-bond 215..241
XX PN W09514231-A1.
XX PD 26-MAY-1995.
XX PF 15-NOV-1994; 94WO-JP01929.
XX PR 16-NOV-1993; 93JP-0309874.
XX PA (YAMA-) YAMASA CORP.
XX PI Igarashi M, Igarashi Y, Koike T, Matsuura E, Nagae H;
XX WIPI; 1995-200487/26.
XX PT Assay and typing of anti:phospholipid antibodies - using peptide
XX PT containing the IV domain of beta-2 glyco:protein
XX PS Example; Fig 2; 70pp; Japanese.
XX CC AAR74999 is the human beta-2 glycoprotein domains I-IV, it can be
XX CC used as a reagent (pref. immobilised on a suitable carrier) in
XX CC an immunoassay for antiphospholipid antibodies in biological
XX CC samples. The assay allows the rapid and accurate diagnosis of
XX CC syndromes involving antiphospholipid antibodies, and can
XX CC discriminate between autoimmune and infectious diseases.
XX SQ Sequence 248 AA;

Query Match 76.7%; Score 56; DB 16; Length 248;
Best Local Similarity 90.9%; Pred. No. 0.036;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 KDKATFGTHDG 11
    ||||| |||
Db 208 KDKATFGCHDG 218

RESULT 8
AAR75001
ID AAR75001 standard; protein; 266 AA.
XX AC AAR75001;
XX DT 18-JAN-1996 (first entry)
XX DE Human beta-2 glycoprotein domains II-V.
XX KW Human beta-2 glycoprotein; domains II-V; antiphospholipid antibodies;
XX KW reagent; assay; diagnosis; autoimmune; infectious diseases.
XX OS Homo sapiens.
XX FH Key Location/Qualifiers
XX FT Disulfide-bond 5..45
XX FT Disulfide-bond 31..58
XX FT Disulfide-bond 63..109
XX FT Disulfide-bond 95..121

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XX New isolated domain 1 beta-2 GPI polypeptides, used for inhibiting  
PT antiphospholipid antibodies for treating, e.g. thrombosis -  
XX  
XX Claim 1; Fig 1; 158pp; English.  
XX  
XX The present sequence is human beta-2 glycoprotein, a phospholipid binding  
CC serum protein. GPI proteins bind to and inhibits beta-2 GPI-dependent  
CC antiphospholipid antibodies. They are useful as toleragens when they bind  
CC to the antibodies at the surface of a B cell and triggers B cell anergy.  
CC The polypeptides and mimetics can be used for treating disorders  
CC associated with beta-2GPI-dependent aPL-associated pathologies, e.g.  
CC thrombosis, recurrent foetal loss, thrombocytopenia or autoimmune  
CC diseases such as systemic lupus erythematosus. The polypeptides can also  
CC be used to detect and purify antibodies. They can also be used in  
CC coagulation assays.  
XX  
XX Sequence 326 AA;  
SQ  
Query Match 76.7%; Score 56; DB 21; Length 326;  
Best Local Similarity 90.9%; Pred. No. 0.052;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 KDKATFGTHDG 11  
DB 208 KDKATFGCHDG 218  
|||||  
RESULT 11  
ABR48505  
ID ABR48505 standard; Protein; 345 AA.  
XX  
XX ABR48505;  
AC  
XX  
XX 13-JUN-2003 (first entry)  
DT  
XX Human Apolipoprotein H, NAPH.  
DE  
XX Human; GENSET; therapeutic; therapy.  
XX  
XX Homo sapiens.  
OS  
XX WO200294864-A2.  
XX  
XX 28-NOV-2002.  
PD  
XX  
XX 06-AUG-2001; 2001WO-IB01715.  
XX  
XX 25-MAY-2001; 2001US-293574P.  
XX  
XX 15-JUN-2001; 2001US-298698P.  
XX  
XX 29-JUN-2001; 2001US-302277P.  
XX  
XX 13-JUL-2001; 2001US-305456P.  
XX  
XX (GEST ) GENSET.  
PA  
XX  
XX Bejanin S, Tanaka H;  
PI  
XX WPI; 2003-129412/12.  
XX  
XX N-PSDB; ACC51112.  
DR  
XX  
XX New GENSET polynucleotides and polypeptides, useful for preparing a  
PT composition for treating GENSET-related disorders and as reagents in  
PT assays to quantitatively determined levels of GENSET expression in  
PT biological samples -  
XX  
XX Claim 2; Page 496-497; 505pp; English.  
PS  
XX  
XX The present invention relates to novel human GENSET coding sequences  
CC (ACC51060-ACC51115) and proteins (ABR48453-ABR48508). The GENSET  
CC sequences are useful for preparing a composition for treating  
CC GENSET-related disorders. They can also be used as markers for tissues in  
CC which the corresponding protein is preferentially expressed, as molecular  
CC weight markers on Southern gels, as chromosome markers or tags to

CC identify chromosomes, and as reagents in assays to quantitatively  
CC determined levels of GENSET expression in biological samples.  
XX  
XX Sequence 345 AA;  
SQ  
Query Match 76.7%; Score 56; DB 24; Length 345;  
Best Local Similarity 90.9%; Pred. No. 0.056;  
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
QY 1 KDKATFGTHDG 11  
DB 227 KDKATFGCHDG 237  
|||||  
RESULT 12  
ABR17992  
ID ABR17992 standard; Peptide; 10 AA.  
XX  
XX ABR17992;  
AC  
XX  
XX 31-OCT-2000 (first entry)  
DT  
XX Beta-2GPI Ab binding peptide sequence SEQ ID NO:1104.  
DE  
XX Modified peptide; therapeutic agent; fusion; Fc domain; cancer;  
KW autoimmune disease; cytostatic; antiasthmatic; thrombolytic; VEGF;  
KW immunosuppressive; EPO; TPO; CTLA4; mimetic; IL-1; TNF; antagonist;  
KW MMP; inhibitor; erythropoietin; thrombopoietin; interleukin 1;  
KW cytotoxic T cell lymphocyte antigen 4; tumour necrosis factor;  
KW vascular endothelial growth factor; matrix metalloproteinase;  
KW asthma; thrombosis; pharmaceutical.  
XX  
XX Synthetic.  
OS  
XX WO200024782-A2.  
XX  
XX 04-MAY-2000.  
PD  
XX  
XX 25-OCT-1999; 99WO-US25044.  
XX  
XX 23-OCT-1998; 98US-0105371.  
PR  
XX 22-OCT-1999; 99US-0428082.  
XX  
XX (AMGE-) AMGEN INC.  
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XX  
XX Feige U, Liu C, Cheetham J, Boone TC;  
PI  
XX WPI; 2000-350702/30.  
DR  
XX  
XX Novel composition of matter comprising an Fc domain and  
PT pharmacologically active peptides, useful for treating cancer and  
PT autoimmune diseases -  
XX  
XX Claim 39; Page 600; 608pp; English.  
PS  
XX  
XX The present invention describes composition of matter (I) comprising an  
CC Fc domain, pharmacologically active peptides, and linkers. Where (I) is:  
CC (X1)a-F1-(X2)b, where: F1 = an Fc domain; X1 and X2 = are each  
CC independently selected from -(L1)c-P1, -(L1)c-P1-(L2)d-P2,  
CC -(L1)c-P1-(L2)d-P2-(L3)e-P3, or -(L1)c-P1-(L2)d-P2-(L3)e-P3-(L4)f-P4  
CC where P1, P2, P3, and P4 = are each independently sequences of  
CC pharmacologically active peptides; L1, L2, L3, and L4 = are each  
CC independently linkers; and a, b, c, d, e, and f = are each independently  
CC 0 or 1, provided that at least 1 of a and b is 1. The composition can  
CC have cytostatic, antiasthmatic, thrombolytic and immunosuppressive  
CC activities. DNAs, vectors and host cells from the present invention can  
CC be used for producing pharmaceutical compositions. The compositions are  
CC useful for treating cancer, asthma, thrombosis, or autoimmune diseases.  
CC The use of an Fc domain (rather than a Fab domain) can provide a longer  
CC half-life or incorporate functions such as Fc receptor binding, protein  
CC A binding, complement fixation, and possibly placental transfer. AAA69443  
CC to AAA69526 and ABR19555 to ABR18003 represent nucleotide and amino acid  
CC sequences used in the exemplification of the present invention.

XX SQ Sequence 10 AA;  
 Query Match 68.5%; Score 50; DB 21; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 0.011;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 KDKATFGTHD 10  
 ||||| ||  
 Db 1 KDKATFGCHD 10

RESULT 13  
 ABB73363  
 ID ABB73363 standard; Peptide; 10 AA.  
 XX  
 AC ABB73363;  
 DT  
 XX 05-APR-2002 (first entry)  
 XX Exemplary pharmacologically active peptide SEQ ID NO:1102.

XX Modified peptide; mimetic; Fc domain; fusion; immunoglobulin G; IgG;  
 KW EPO; erythropoietin; TPO; tumour necrosis factor alpha inhibitor;  
 KW TNF-alpha inhibitor; interleukin 1 antagonist; IL-1 antagonist; TNP;  
 KW TPO mimetic peptide; EPO mimetic peptide; EMP; VEGF antagonist;  
 KW MMP inhibitor; antiinflammatory; antitumour; immunosuppressive;  
 KW cytostatic; antirheumatic; antiarthritis; antidiabetic; ophthalmological;  
 KW antianemic; anorectic; antifertility; haemostatic; dermatological;  
 KW neuroprotective; inflammatory disease; autoimmune disease; tumour growth;  
 KW cancer; rheumatoid arthritis; diabetic retinopathy; infertility; obesity;  
 KW sleep disorder; neurological degenerative disease; anaemia;  
 KW thrombocytopaenia; metastatic tumour; systemic lupus erythematosus;  
 KW Fanconi's syndrome.

XX Synthetic.  
 OS  
 XX WO200183525-A2.  
 PN  
 XX 08-NOV-2001.  
 PD  
 XX 02-MAY-2001; 2001WO-US14310.  
 PF  
 XX 03-MAY-2000; 2000US-0563286.  
 PR  
 XX (AMGE-) AMGEN INC.  
 PA  
 XX Feige U, Liu C, Cheatham JC, Boone TC, Gudas JM;  
 PI WPI; 2002-130313/17.  
 DR  
 XX Novel vehicle-peptide molecule or its multimers useful for treating  
 PT inflammatory and autoimmune diseases, cancer, rheumatoid arthritis,  
 PT diabetic retinopathy, obesity, sleep disorders and infertility.  
 XX  
 PS Claim 39; Page 62; 176pp; English.

XX The present invention describes a vehicle-peptide molecule (I) or its  
 CC multimers. (I) can have antiinflammatory, antitumour, immunosuppressive,  
 CC cytostatic, antirheumatic, antiarthritis, antidiabetic, ophthalmological,  
 CC antianemic, anorectic, antifertility, haemostatic, dermatological and  
 CC neuroprotective activities. (I) can be used as a therapeutic or  
 CC prophylactic agent as well as for screening purposes. (I) is useful for  
 CC diagnosing diseases characterised by dysfunction of their associated  
 CC protein of interest, for identifying normal or abnormal proteins of  
 CC interest, as a part of diagnostic kit to detect the presence of their  
 CC proteins of interest in a biological sample. Additionally, (I) is useful  
 CC for treating inflammatory and autoimmune diseases, tumour growth, cancer,  
 CC rheumatoid arthritis, diabetic retinopathy, obesity, sleep disorders,  
 CC infertility, and neurological degenerative diseases. (I), comprising  
 CC EPO-mimetic compounds are useful for treating disorders characterised by  
 CC low red blood cell levels such as anaemia. The TPO-mimetic comprising  
 CC compounds are useful for treating conditions that involve an existing

CC megakaryocyte/platelet deficiency or an expected megakaryocyte/platelet  
 CC deficiency, such as thrombocytopaenia, aplastic anaemia, metastatic  
 CC tumour which result in thrombocytopaenia, systemic lupus erythematosus,  
 CC and Fanconi's syndrome. ABB72403 to ABB73426 and ABL5695 to ABL5777  
 CC represent amino acid and nucleic acid sequences used in the  
 CC exemplification of the present invention.

XX SQ Sequence 10 AA;  
 Query Match 68.5%; Score 50; DB 23; Length 10;  
 Best Local Similarity 90.0%; Pred. No. 0.011;  
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1 KDKATFGTHD 10  
 ||||| ||  
 Db 1 KDKATFGCHD 10

RESULT 14  
 AAY82220  
 ID AAY82220 standard; Protein; 785 AA.  
 XX  
 AC AAY82220;  
 XX  
 DT 12-JUN-2000 (first entry)  
 DE Humicola insolens cellobiose dehydrogenase SEQ ID NO:2.  
 XX Humicola insolens; cellobiose dehydrogenase; pulp bleaching process.  
 KW Humicola insolens.  
 OS  
 XX US6033891-A.  
 PN  
 XX 07-MAR-2000.  
 PD  
 XX 09-MAR-1999; 99US-0265108.  
 PF  
 XX 09-MAR-1999; 99US-0265108.  
 PR  
 XX (NOVO ) NOVO NORDISK BIOTECH INC.  
 PA  
 XX Golightly E, Brown K;  
 PI WPI; 2000-255698/22.  
 DR  
 XX N-PSDB; AA295701.  
 DR  
 XX New cellobiose dehydrogenase polynucleotides and polypeptides used for  
 PT modulation of cellobiose dehydrogenase activity.  
 PT  
 XX Claim 1; Fig 3; 28pp; English.

XX The present sequence represents cellobiose dehydrogenase isolated from  
 CC Humicola insolens. The cellobiose dehydrogenase polynucleotides may be  
 CC used for recombinant production of the polypeptide. They may also be  
 CC used to produce transgenic plants, e.g. monocots such as grasses, sugar  
 CC cereals and maize, and dicots such as tobacco, legumes, potato, sugar  
 CC beet. A cellobiose dehydrogenase polypeptide deleted cell may also be  
 CC produced, which is used for production enzymes and other heterologous  
 CC proteins of pharmaceutical interest, such as hormones and growth  
 CC factors. The cellobiose dehydrogenase polypeptide may be used in a pulp  
 CC bleaching process under alkaline conditions.

XX SQ Sequence 785 AA;  
 Query Match 60.3%; Score 44; DB 21; Length 785;  
 Best Local Similarity 72.7%; Pred. No. 24;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 2 DKATFGTHDG 12  
 ||||| ||  
 Db 188 DTATFGHDNG 198

RESULT 15  
AAG65578  
ID AAG65578 standard; Protein; 785 AA.  
XX  
AC AAG65578;  
XX  
DT 07-JAN-2002 (first entry)  
XX  
DE H. insolens DSM 1800 cellobiose dehydrogenase polypeptide.  
XX  
KW Cellobiose dehydrogenase; transgenic; pulp bleaching; cellobiose;  
KW pharmaceutical.  
XX  
OS Humicola insolens.  
XX  
FH Key Location/Qualifiers  
FT Peptide 1..21  
FT /note= "signal peptide"  
FT Protein 22  
FT /note= "mature protein"  
XX  
PN US6280976-B1.  
XX  
PD 28-AUG-2001.  
XX  
PF 05-JAN-2000; 2000US-0479264.  
XX  
PR 09-MAR-1999; 99US-0265108.  
XX  
PA (NOVO ) NOVOZYMES BIOTECH INC.  
XX  
PI Golightly EJ, Brown KM;  
XX  
DR WPI; 2001-601400/68.  
DR N-PSDB; AAH47743.  
XX  
PT Novel nucleic acid encoding polypeptides with cellobiose dehydrogenase  
XX activity useful for transgenic plant production -  
XX  
PS Example 2; Fig 3A-C; 27pp; English.  
XX  
CC The invention relates to nucleic acids encoding polypeptides having  
CC cellobiose dehydrogenase activity. Nucleic acid construct the comprising  
CC the polynucleotides are useful in transgenic plant production. The  
CC encoded protein is useful in pulp bleaching process under alkaline  
CC conditions. Plants grown where cellobiose activity has been removed may  
CC be used to express heterologous proteins of pharmaceutical interest such  
CC as hormones, growth factors and receptors. The present sequence  
CC represents a H. insolens DSM 1800 cellobiose dehydrogenase polypeptide.  
XX  
SQ Sequence 785 AA;  
Query Match 60.3%; Score 44; DB 22; Length 785;  
Best Local Similarity 72.7%; Pred. No. 24;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 2 DKATFGTHDGG 12  
| | | | | | | |  
Db 188 DTATFGHDHG 198

Search completed: August 28, 2003, 18:34:29  
Job time : 44.2727 secs